

Innovation and Impact: A Journey of *Radiation Detection Technology and Methods*

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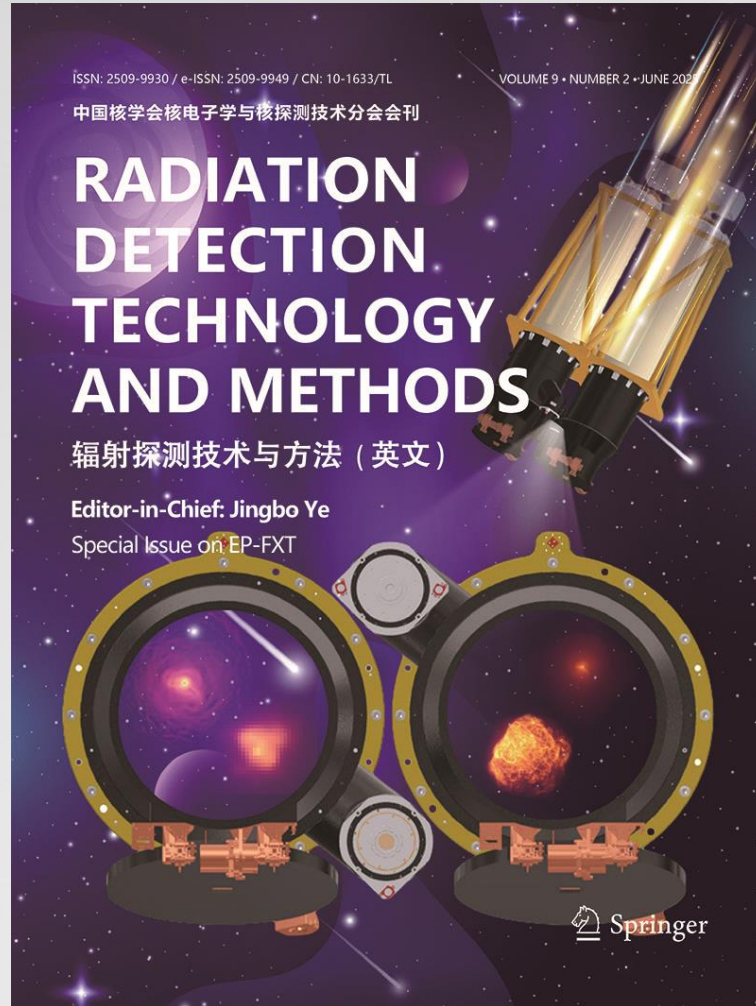


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About Us

Radiation Detection Technology and Methods (RDTM)



- **Journal:** A peer-reviewed, international and interdisciplinary research journal that focuses on all aspects of radiation detection technology and methods. It presents an attractive mix of authoritative and comprehensive reviews, original articles on cutting-edge research and brief communications.
- **Founded by:** Institute of High Energy Physics; Chinese Nuclear Society, division of Nuclear Electronics and Nuclear Detection Techniques
- **Published by:** Springer Nature, quarterly issued
- **Year of Publication:** 2017
- **Journal Coverage:** Detection technology and methods, computer technology applications, particle acceleration technology, electronics and system design, synchrotron-radiation based techniques and methods, astroparticle technology, and imaging and radiology
- **Indexed in:** Emerging Sources Citation Index (ESCI), Scopus, etc..
- **Journal Website:** <https://www.springer.com/journal/41605>
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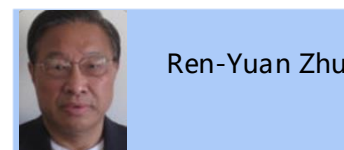
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Journal Metrics

2024 USAGE



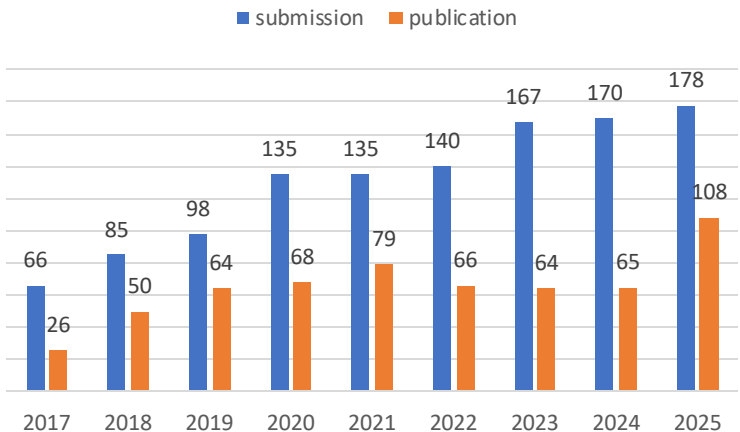
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Submission to accept (median)
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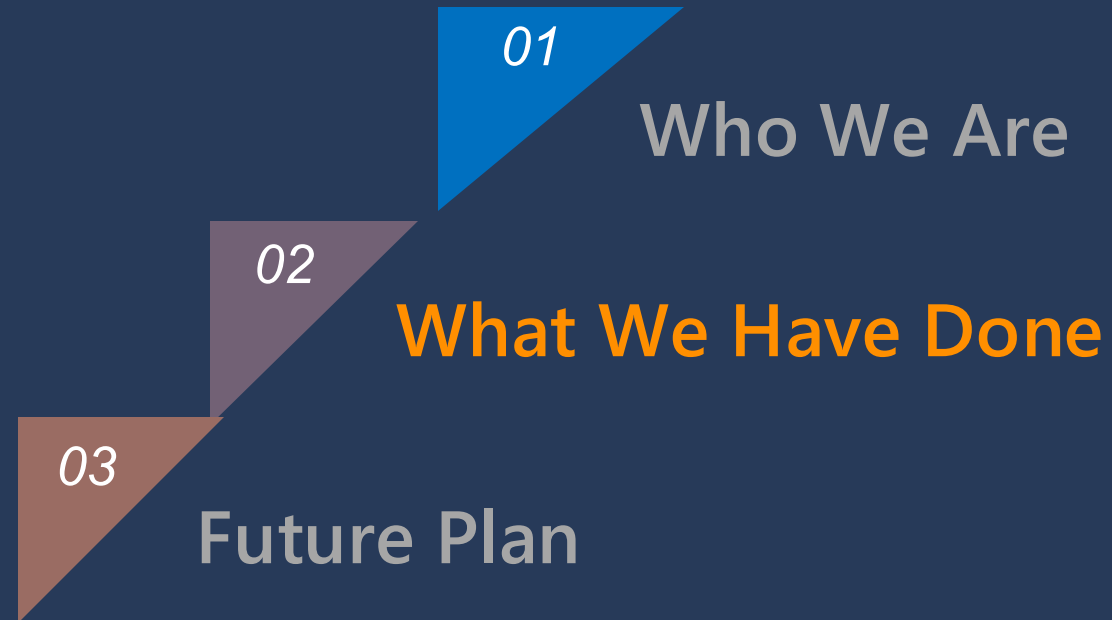
JCR Impact Factor

Publication Title	Year of Publication	2022	2023	2024
NIMA	1984	1.4	1.5	1.4
JINST	2006	1.3	1.3	1.3
RDTM	2017	0.6	1.0	

CAS Journal Ranking NUCLEAR SCIENCE & TECHNOLOGY

Publication Title	Year of Publication	2022	2023	2025
NIMA	1984	Q3	Q3	Q3
JINST	2006		Q4	Q4
RDTM	2017	Q4	Q4	Q3

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Journal Publication Achievements

Special Issue



Volume 4, Issue 4 (2020) Special Issue on HEPS
Volume 6, Issue 1 (2022) Special Issue on GECAM
Volume 7, Issue 1 (2023) Special Issue on HXMT
Volume 8, Issue 1 (2024) Special Issue on CEPC
Volume 9, Issue 2 (2025) Special Issue on EP TDR: Accelerator

Journal Publication Achievements

Highly-cited Paper

Huihai He, Design of the LHAASO detectors

Volume 2, article number 7, (2018)

Accesses: 2510

Citations: 94

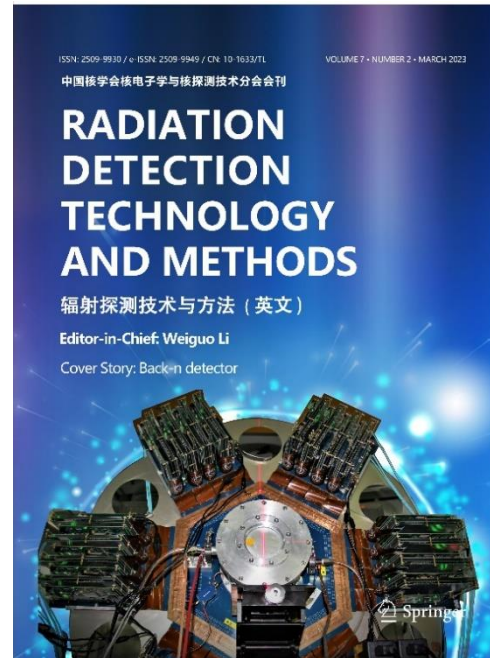
Xin Li et al., Study of MRPC technology for BESIII endcap-TOF upgrade

Volume 1, article number 13, (2017)

Accesses: 1830

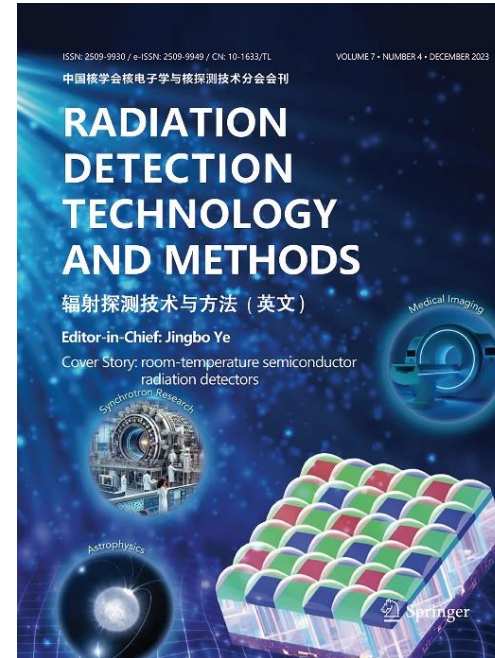
Citations: 253

Cover Story



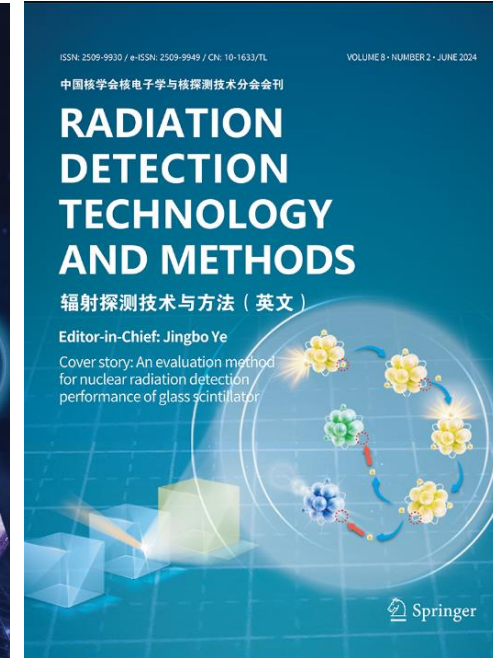
Volume 7, Issue 2 (2023)

**Cover Story:
Back-n Detector**



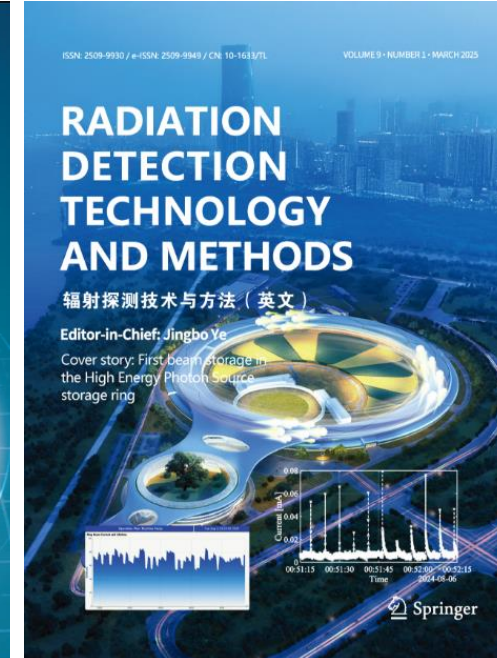
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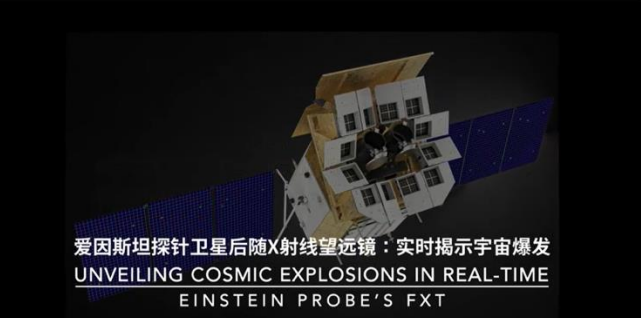
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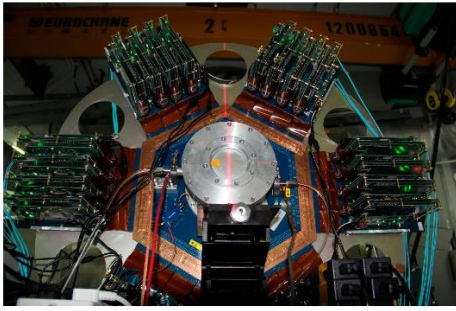
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RDTM Research Highlight



Back-n white neutron source: Unveiling the Power of Neutron Research



Back-n is a white neutron beamline at China spallation neutron source, which was established in the year of 2010. It has quickly become a pioneering facility for nuclear data measurement, neutron detector calibration and radiation effect research.

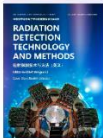
This article serves as an in-depth overview of the detectors employed at Back-n. Delve into the intricacies of their design and witness their remarkable performance in various experiments. Moreover, ongoing developments of cutting-edge systems like MTPC and B-MCP are also introduced, which promise to push the boundaries of neutron research even further.

Click to read the full article: [Runji, F., Qiang, L., Jie, B. et al. Detector development at the Back-n white neutron source.](#)

Abstract: A series of detectors were built for different experiments, including beam monitoring, beam profile measurement, neutron induced secondaries (fission fragments, light charged particles and gamma) cross section measurement, and neutron resonance radiography, etc. A common digitization electronics and a cluster-based DAQ were developed for these detector systems. Most detectors have been employed at Back-n and serviced for experiments from the beginning of the beamline running.

Other Publication on the same topic: [Ren, J., Ruan, X., Bao, J. et al. The C200 detector system on the Back-n beam line of CSNS.](#)

About the Journal



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Dear Prof. Botnar R.M.

We are pleased to inform you that your article entitled: **PET/MRI of atherosclerosis 2020** has been cited by **Prof. Jianhua Geng** in the following paper published in *Radiation Detection Technology and Methods*:

Jianhua Geng et al. Recent progress on imaging technology and performance testing of 'ET/MR. *Radiation Detection Technology and Methods* 7, 84-89 (2023).
<https://doi.org/10.1007/s41605-022-00376-8>

We hope this paper will be useful for your research as well.

Thanks for your attention!

Best regards,

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- Investigating AI applications in academic writing: Language Enhancement, Citation Recommendation, and Peer Reviewer Identification
- Exploring the feasibility of RDTM in SCOAP3



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Many Thanks to Jingbo, Yi, Xiaolin, Yanjin, Xia and Hairong!